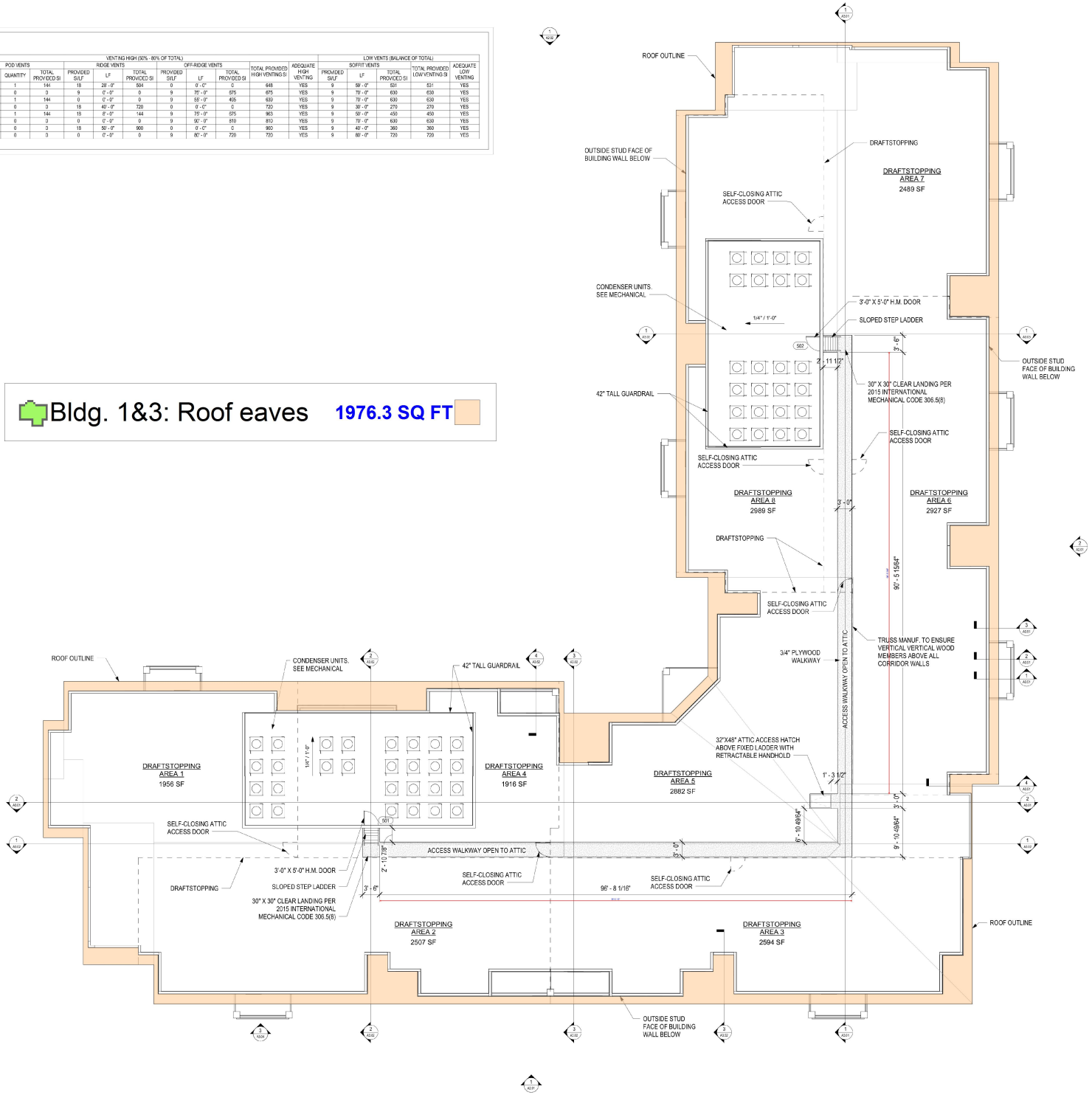
ATTIC VENTILATION SCHEDULE

AREA	ATTIC AREA SF	TOTAL NET FREE VENTED AREA SI	50% TOTAL NET FREE VENTED AREA SI	VENTING HIGH (50% - 80% OF TOTAL)											LOW VENTS (BALANCE OF TOTAL)				
				POD VENTS			RIDGE VENTS			OFF-RIDGE VENTS			TOTAL PROVIDED HIGH VENTING SI	ADEQUATE HIGH VENTING	SOFFIT VENTS				ADEQUATE LOW VENTING
				PROVIDED SI/ EACH	QUANTITY	TOTAL PROVIDED SI	PROVIDED SI/LF	LF	TOTAL PROVIDED SI	PROVIDED SI/LF	LF	TOTAL PROVIDED SI			PROVIDED SI/LF	LF	TOTAL PROVIDED SI	TOTAL PROVIDED LOW VENTING SI	
DRAFTSTOPPING AREA 1	1956 SF	939	469	144	1	144	18	28' - 0"	504	0	0' - 0"	0	648	YES	9	56' - 0"	531	531	YES
DRAFTSTOPPING AREA 2	2507 SF	1203	602	0	0	0	9	0' - 0"	0	9	75' - 0"	675	675	YES	9	70' - 0"	630	630	YES
DRAFTSTOPPING AREA 3	2594 SF	1245	623	144	1	144	0	0' - 0"	0	9	55' - 0"	495	639	YES	9	70' - 0"	630	630	YES
DRAFTSTOPPING AREA 4	1916 SF	920	460	0	0	0	18	40' - 0"	720	0	0' - 0"	0	720	YES	9	30' - 0"	270	270	YES
DRAFTSTOPPING AREA 5	2882 SF	1384	692	144	1	144	18	8' - 0"	144	9	75' - 0"	675	963	YES	9	50' - 0"	450	450	YES
DRAFTSTOPPING AREA 6	2927 SF	1405	702	0	0	0	0	0' - 0"	0	9	90' - 0"	810	810	YES	9	70' - 0"	630	630	YES
DRAFTSTOPPING AREA 7	2489 SF	1195	597	0	0	0	18	50' - 0"	900	0	0' - 0"	0	900	YES	9	40' - 0"	360	360	YES
DRAFTSTOPPING AREA 8	2989 SF	1435	717	0	0	0	0	0' - 0"	0	9	80' - 0"	720	720	YES	9	80' - 0"	720	720	YES

Bldg. 1&3: Roof eaves **1976.3 SQ FT**



1 ATTIC PLAN
1/8" = 1'-0"

KEY PLAN

ROOF PLAN NOTES

1. ALL FLAT ROOFS SHALL HAVE A MIN. 1/4" PER FOOT SLOPE FOR DRAINAGE. REFERENCE BUILDING SECTIONS AND STRUCTURAL DETAILS FOR PARAPET CONSTRUCTION.
2. ROOF CRICKETS TO SLOPE AS NEEDED FOR POSITIVE DRAINAGE.
3. FLASH ALL ROOF PENETRATIONS PER MANUFACTURERS REQUIREMENTS TO PROVIDE CONTINUOUS WARRANTY.
4. EXTERIOR FINISH MATERIALS AT SIDE RETURNS FROM HIGH PARAPETS TO EXTEND TO REAR END OF PARAPET WALL.
5. PROVIDE WALK PADS FROM ROOF ACCESS DOOR TO ROOF TOP MECHANICAL EQUIPMENT AS REQUIRED.
6. ALL ROOF PENETRATIONS (PLUMBING STACK VENTS, ETC.) TO BE PAINTED TO MATCH ROOFING COLOR.
7. CONTINUE ROOF MEMBRANE UP PARAPET WALLS AND OVER BLOCKING, TURNING DOWN MIN. 3" AT EXTERIOR FACE EDGE.
8. TURN ROOF MEMBRANE UP 4" ONTO HIGHER PARAPET WALLS AT END OF "LOW" PARAPET WALLS.
9. INSTALL PREFABRICATED SADDLE FLASHING AT "LOW" PARAPET TERMINATION TO "HIGH" PARAPET WALL.
10. COPING TO INCLUDE CONTINUOUS CLEAT AT EXTERIOR SIDE AND MECHANICAL ATTACHMENT AT INTERIOR SIDE OF ROOF.
11. SEE A9.X SERIES FOR RELEVANT ROOF AND WATERPROOFING DETAILS.
12. NO ROOF PENETRATIONS TO OCCUR WITHIN 4' HORIZONTAL AT EACH SIDE OF TERMINATION OF 2-HOUR FIRE WALLS.
13. TPO TO BE MECHANICALLY FASTENED. MAINTAIN 12" MINIMUM FROM END OF HIPRIDGE VENT TO ROOF EDGE/INTERSECTION.
14. PROVIDE VAPOR RETARDER WITH A TRANSMISSION RATE NOT EXCEEDING 1 PERM PER ASTM E96 ON THE WARM SIDE OF THE ATTIC INSULATION.
15. USE 5" PREFINISHED ALUMINUM GUTTERS AND 3" X 4" DOWNSPOUTS. COLOR TO BE SELECTED BY ARCHITECT. PROVIDE SPLASH GUARD EXTENSIONS AT VALLEYS TO DIRECT OVERFLOW.
16. ALL ROOF OVERHANGS ARE 24" UNLESS NOTED OTHERWISE.
17. ALL ROOF PITCHES SHALL BE 6:12 UNLESS NOTED OTHERWISE.
18. ATTIC ACCESS: 22" X 36" MINIMUM WITH INSULATION ON TOP OF ACCESS PANEL.
19. PROVIDE DRAFTSTOPPING WITH MINIMUM OF 1/2" WOOD SHEATHING TO SUBDIVIDE THE ATTIC INTO SPACES OF 3,000 SQUARE FEET MAXIMUM AREAS, TYPICAL.
20. PROVIDE SELF-CLOSING, 24" X 84" MINIMUM, UNLESS NOTED OTHERWISE. ACCESS DOOR PANEL IN DRAFT STOP ASSEMBLY WHERE SHOWN FOR FIRE DEPARTMENT ACCESS TO ATTIC COMPARTMENT FROM COMMON AREA.
21. PROVIDE 3/4" PLYWOOD WALK FROM ATTIC ACCESS TO DRAFT STOP PANEL(S) FOR INSPECTION ACCESS. TYPICAL.
22. PROVIDE VALLEY FLASHING 18" UP EACH SLOPED FACE.
23. DOWNSPOUTS TO BE TIED IN TO SUB-SURFACE DRAINAGE SYSTEM. REFER TO CIVIL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
24. CONTRACTOR TO VERIFY AND COORDINATE LOCATIONS OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS WITH MEP DRAWINGS.

ROOF PLAN LEGEND

- GUTTER AND DOWNSPOUT
- SERVICE WALKPAD WITH ADD. LAYER OF TPO
- CONDENSER UNIT, 3"X28"X28" MOUNTING PAD UNDER EACH
- RIDGE VENT
- 4:12 ROOF PITCH
- OUTSIDE FACE OF STUD, BELOW
- RD ROOF DRAIN
- SD SECONDARY ROOF DRAIN
- FIRE WALL
- 1-HOUR RATED ROOF ACCESS
- ATTIC DRAFTSTOPPING
- AV-36-C4 EXHAUST VENT
- PV-24-C6 INTAKE VENT

ISSUE DATE: 10-15-2018

REVISIONS

STATE OF SOUTH CAROLINA
DANIEL R. SWIFT
DES MOINES, IA 0015
REGISTERED ARCHITECT

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Charlotte, North Carolina 28203
704.758.2328

JOB NO: SHF8X003 PROJ. MGR: MT
DRAWN: RM CHECKED: MIL

BUILDINGS 1&3 - ATTIC PLAN

10-15-2018 - 100% CONSTRUCTION DOCUMENTS - FOR CONSTRUCTION

A1.06

ROOF DRAINAGE SCHEDULE

ROOF DATA					RAINFALL DATA			DOWNSPOUT DATA							GUTTER DATA					
LOCATION	ROOF AREA	ROOF PITCH	ROOF PITCH FACTOR	ADJUSTED AREA	RAINFALL INTENSITY (PER IPC SECTION 1106	DRAIN RATIO	REQ'D GPM	DS TYPE	NOMINAL SIZE	DS CAPACITY (EACH) PER IPC TABLE 1106.3	REQ'D NUMBER OF DS	DS SHOWN	TOTAL DS CAPACITY (GPM)	ADEQUATE DS	WITDH	RATIO	MIN. DEPTH	GUTTER CAPACITY PER IPC TABLE 1106.5	ADEQUATE GUTTERS	REMARKS
ROOF AREA 1	186 SF	4 1/2" / 12"	1.05	196 SF	3.2		6.20	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 2	187 SF	4 1/2" / 12"	1.05	196 SF	3.2		6.20	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 3	540 SF	4 1/2" / 12"	1.05	567 SF	3.2		17.94	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 4	946 SF	4 1/2" / 12"	1.05	994 SF	3.2		31.47	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 5	773 SF	4 1/2" / 12"	1.05	812 SF	3.2		25.70	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 6	1152 SF	1/4" / 12"	1	1152 SF	3.2		38.31	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 7	1336 SF	4 1/2" / 12"	1.05	1401 SF	3.2		44.37	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 8	124 SF	4 1/2" / 12"	1.05	131 SF	3.2		4.13	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 9	4681 SF	4 1/2" / 12"	1.05	4915 SF	3.2		155.61	RECT	3x5	192	1	3	576	YES	0' - 3"		0' - 5"	225	YES	
ROOF AREA 10	1157 SF	4 1/2" / 12"	1.05	1215 SF	3.2		38.48	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 11	5303 SF	4 1/2" / 12"	1.05	5571 SF	3.2		177.58	RECT	3x5	192	1	4	768	YES	0' - 3"		0' - 5"	225	YES	
ROOF AREA 12	1370 SF	4 1/2" / 12"	1.05	1439 SF	3.2		45.55	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 13	639 SF	4 1/2" / 12"	1.05	671 SF	3.2		21.23	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 14	126 SF	4 1/2" / 12"	1.05	132 SF	3.2		4.18	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 15	187 SF	4 1/2" / 12"	1.05	197 SF	3.2		6.23	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 16	1138 SF	4 1/2" / 12"	1.05	1195 SF	3.2		37.83	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 17	6755 SF	4 1/2" / 12"	1.05	7093 SF	3.2		224.58	RECT	3x5	192	2	5	960	YES	0' - 3"		0' - 5"	225	YES	
ROOF AREA 18	3244 SF	4 1/2" / 12"	1.05	3406 SF	3.2		107.84	RECT	3x5	192	1	2	384	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 19	1593 SF	1/4" / 12"	1	1593 SF	3.2		52.97	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 20	366 SF	4 1/2" / 12"	1.05	384 SF	3.2		12.16	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	
ROOF AREA 21	105 SF	4 1/2" / 12"	1.05	110 SF	3.2		3.48	RECT	3x5	192	1	1	192	YES	0' - 3"		0' - 5"	157	YES	

ROOF PLAN LEGEND

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- SERVICE WALKPAD WITH ADD. LAYER OF TPO
- CONDENSER UNIT, 3"X26"X28" MOUNTING PAD UNDER EACH
- RIDGE VENT
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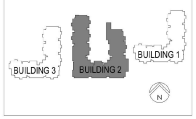
KEY PLAN



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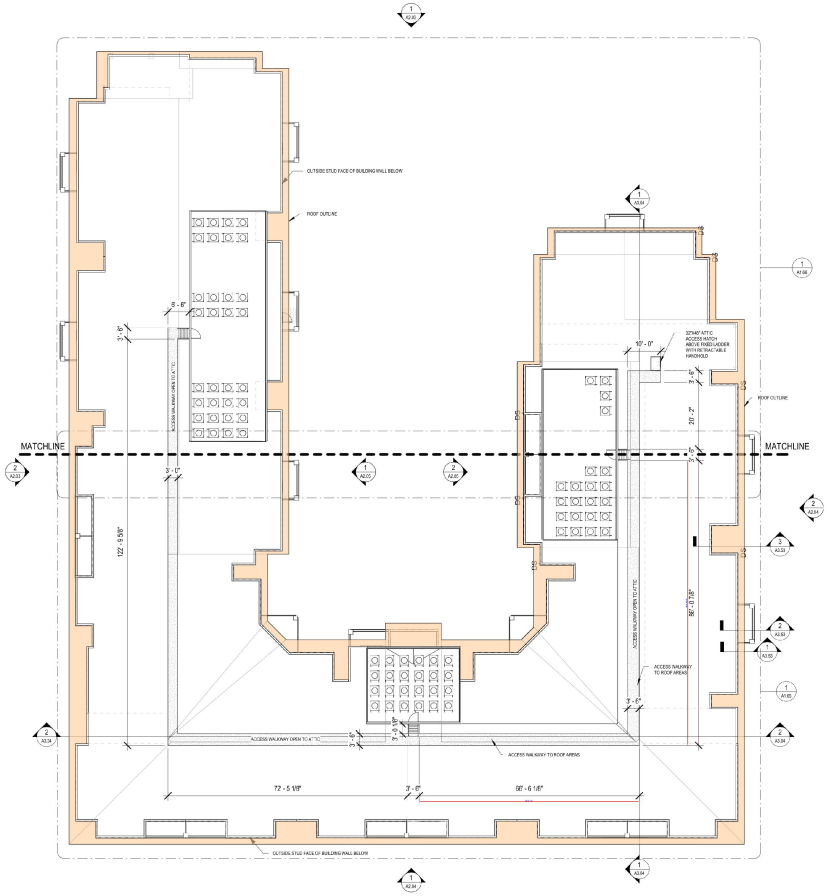
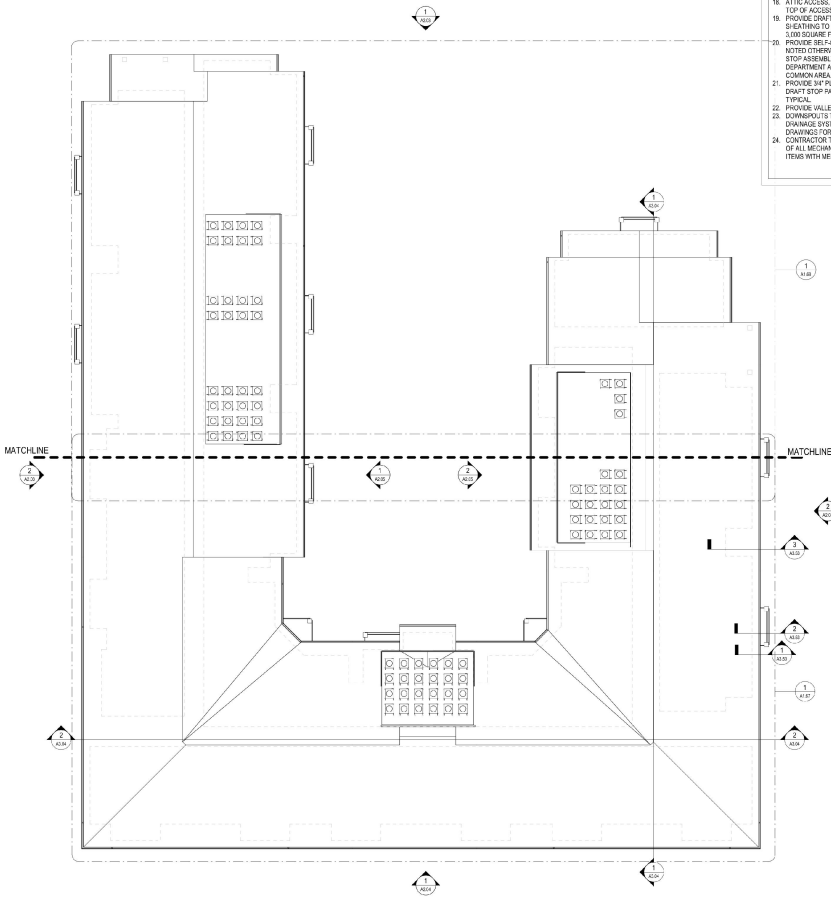
Bldg. 2: Roof eaves **3132.1 SQ FT**



2 ATTIC PLAN
1/16" = 1'-0"



1 ROOF PLAN
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ISSUE DATE: 10-15-2018

REVISIONS

STATE OF SOUTH CAROLINA
DANIEL R. SWIFT
DES MOINES, IA
9015
REGISTERED ARCHITECT

10-15-2018 - 100% CONSTRUCTION DOCUMENTS - FOR CONSTRUCTION

THE MARSHALL AT COASTAL

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DRAWN: KM CHECKED: MIL

BUILDING 2 - ROOF AND ATTIC PLAN

A1.54